

EIGHTEENTH CONGRESS OF THE)
REPUBLIC OF THE PHILIPPINES)
First Regular Session)



SENATE
Office of the Secretary

SENATE

'19 JUL 17 P6:05

S. No. 594

RECEIVED BY

Introduced by Senator Ralph G. Recto

AN ACT
STRENGTHENING THE UTILIZATION OF INFORMATION AND
COMMUNICATION TECHNOLOGY (ICT) IN ALL PUBLIC ELEMENTARY
SCHOOLS AND HIGH SCHOOLS PROVIDING FUNDS THEREFOR AND FOR
OTHER PURPOSES

EXPLANATORY NOTE

The advent of the internet can be likened to the invention of Guttenberg's printing press. Similar to how the printing press ushered in the human race from the Dark Ages to the New Age, the internet is ushering humankind into a world unhampered by borders. Modern Information and Communication Technologies (ICT) such as Wi-Fi, mobile phones, computers, and laptops allow easier and faster access to timely information which is necessary in a rapidly globalizing and competitive world.

"(ICTs) greatly facilitate the acquisition and absorption of knowledge, offering developing countries unprecedented opportunities to enhance educational systems, improve policy formulation and execution, and widen the range of opportunities for business and the poor. One of the greatest hardships endured by the poor, and by many others who live in the poorest countries is their sense of isolation. The new

communication technologies promise to reduce that sense of isolation, and to open access to knowledge in ways unimaginable not long ago.”

- *World Bank (1998), The World Development Report quoted in Blurton, C., New Directions of ICT – Use in Education*

In line with the goals set forth in the country's K to 12 Program, particularly for the secondary level, the utilization of modern technology would better equip students with faculties necessary in preparation for tertiary education and for the increasingly competitive labor market.

As of School Year 2016-2017, the number of students enrolled in the country's 38,803 elementary public schools was at 12.9 million, while students enrolled in the 11,680 elementary private schools was at 1.2M¹. Meanwhile, enrollment in the country's 8,282 secondary public schools was at 6.2 million, and for the 5,935 secondary private schools it was at 1.3 million². Many of the private schools in the country have long since supplemented classroom learning with ICT such as the use of computers and multimedia projectors for a more effective and efficient learning experience. They have also incorporated computer and internet education in their curricula while public schools have to wrestle with dated computers that are not even commensurate to the number of students enrolled in public schools.

Computer and internet literacy is hard currency in most industries and in today's labor market. Students who do not have access to computers and to the internet could potentially have slim chances of securing a job as opposed to students

¹ Department of Education Basic Education Fact Sheet

² Ibid.

in most private schools who have had experience with ICT and training in search, retrieval and processing of information sourced from the internet.

The internet and computer use are part and parcel of globalization where the youth is undoubtedly at the forefront. The burgeoning youth population of the country grapple with the ever increasing qualifications of landing a job and limiting them from fully harnessing the capabilities that ICT offers will surely leave them lagging behind in personal growth and in the labor market.

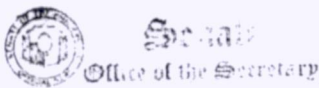
With a rapidly digitizing world, it is imperative that traditional learning methods be supplemented with ICT to allow more efficient learning in classrooms. Equipping public schools with computers and internet is a challenge that does not just mean being at par with counterparts in private schools—but it is about giving students in public secondary schools equal opportunity to make use of ICT, which is an absolute need in today's society. Providing public schools with ICT is not the sole solution to problems of unemployment, but it is a definite step to ensuring that the Filipino youth is competitive in the rapidly changing world characterized by the introduction of new technologies that lead to a "knowledge-based economy" where education drives growth, increases productivity, and creates jobs.

In light of the foregoing, the approval of this bill is earnestly sought.



RALPH G. RECTO

/FMPC



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OTHER PURPOSES**

*Be it enacted by the Senate and House of Representatives of the Philippines in
Congress assembled:*

- 1 Section 1. *Short Title.* – This Act shall be known as the "ICT in Education Act
2 of 2019".
- 3 Sec. 2. *Declaration of Policy and Objectives.* – It shall be the policy of the
4 State to provide quality education that is accessible to all citizens. Furthermore, the
5 State shall also establish and maintain an education system that is relevant to the
6 needs of society.
- 7 This Act shall attain the following objectives:
- 8 a. Provide public schools with up-to-date computer facilities including a
9 stable wireless network and equipment necessary for easier access to
10 information;
- 11 b. Train educators to supplement traditional classroom learning with
12 Information and Communication Technology (ICT);
- 13 c. Replace out-dated textbooks with up-to-date electronic books; and
- 14 d. Have an online shared curriculum among public schools to ensure that
15 students even in rural areas will be given the same quality of education.

1 Sec. 3. *ICT in Public Elementary Schools and High Schools.* – The
2 Department of Education (DepEd) shall use appropriate and effective ICT in public
3 schools to broaden access to basic education, improve the quality of learning,
4 enhance the quality of teaching, and improve educational planning and
5 management.

6 Sec. 4. *Physical and Technological Infrastructure.* – Within a period of six (6)
7 years, all public schools shall establish at least one (1) Computer Center with a
8 stable internet connection that will provide and ensure the access of students to the
9 internet. The schools shall avail of the services of existing commercial internet
10 providers and shall establish and maintain a computer facility system which should
11 have, at the minimum, the following equipment:

- 12 A. Desktop Personal Computer (PC);
- 13 B. Wireless Broadband Router;
- 14 C. Uninterruptible Power Supply (UPS);
- 15 D. Computer Printer; and
- 16 E. Multimedia Projector.

17 The number of computer units for the Computer Center of each public school
18 will be based on the standards provided for by the DepEd in consultation with the
19 Department of Information and Communications Technology (DICT) and with each
20 respective public school.

21 Sec. 5. *Training for Educators and Maintenance of ICT.* – The Regional
22 Offices of the DepEd and the DICT shall carry out training for educators in public
23 schools to integrate ICT in classroom learning, to instill in educators the professional
24 and educational benefits of investment in ICT, and to allow educators to have
25 mastery of sourcing out appropriate resources for education.

26 The aforementioned agencies shall monitor the use and upkeep of the ICT
27 introduced in public schools.

28 Sec. 6. *Utilization of ICT in Classroom Learning and in Computer Centers.* –
29 Educators in public schools shall make full use of ICT as presentation tools to
30 complement traditional teaching methods. Presentation tools may include, but shall

1 not be limited to, multimedia projectors, television and guided internet surfing where
2 the educator and the students will be able to view internet sites simultaneously.

3 Computer Centers in public schools should be made available to students for
4 training on computer and internet use, and for research purposes.

5 Sec. 7. *Computerization of Administrative Systems.* – The DepEd with the
6 technical assistance of the DICT shall develop an ICT-based administrative system
7 that will enhance organizational communication; facilitate gathering, analysis,
8 dissemination, and maintenance of educational statistics; and streamline office
9 procedures.

10 Sec. 8. *Appropriations.* – The amount necessary for the immediate
11 implementation of the provisions of this Act is hereby authorized to be appropriated
12 out of any funds in the National Treasury not otherwise appropriated. Thereafter,
13 funds for its implementation shall be included in the regular appropriations of the
14 Department of Education.

15 Sec. 9. *Implementing Rules and Regulations* – The DepEd and the DICT shall,
16 within thirty (30) days from the effectivity of this Act, issue the necessary rules and
17 regulations for its effective implementation.

18 Sec. 10. *Separability Clause.* – In the event that any provision of this Act is
19 declared unconstitutional, the validity of the other provisions shall not be affected by
20 such declaration.

21 Sec. 11. *Repealing Clause.* – All laws, decrees, orders, rules and regulations,
22 or portions thereof, inconsistent with this Act are hereby repealed or modified
23 accordingly.

24 Sec. 12. *Effectivity.* – This Act shall take effect fifteen (15) days following its
25 publication in at least two (2) newspapers of general circulation or in the *Official*
26 *Gazette*.

Approved,